

CLAIMS

1. A recording apparatus comprising:

carrying means for carrying a recording medium;

5 detection means that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said recording medium; and

10 a recording head for ejecting liquid to record recording information;

wherein if a width of said recording medium that has been detected by said detection means is shorter than a width, in the direction that intersects the carrying direction of said recording medium, over which said recording information is to be recorded, then a portion of the recording information, of the entire recording information, corresponding to the width, or to less than the width, of said recording medium that has been detected by said detection means is recorded onto said recording medium by said recording head.

2. A recording apparatus according to claim 1,

wherein if the width of said recording medium that has been detected by said detection means is shorter than the width, in the direction that intersects the carrying direction of said recording medium, over which said recording information is to be recorded, then a portion of the recording information, of the entire recording information, corresponding to the width of said recording medium that has been detected by said detection means is recorded onto said recording medium by said recording

head.

3. A recording apparatus according to claim 1,

5 wherein if the width of said recording medium that has been detected by said detection means is shorter than the width, in the direction that intersects the carrying direction of said recording medium, over which said recording information is to be recorded, then a portion of the recording information, of the entire recording information, corresponding to a width
10 obtained by subtracting a border width from the width of said recording medium that has been detected by said detection means is recorded onto said recording medium by said recording head.

4. A recording apparatus according to claim 1,

15 wherein said detection means moves in the direction that intersects the carrying direction of said recording medium and detects whether or not said recording medium is present, and detects the width of said recording medium based on whether or not said recording medium is present.

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5. A recording apparatus according to claim 1,

wherein said detection means and said recording head are both provided in/on a moving member for moving in the direction that intersects the carrying direction of said recording
25 medium.

6. A recording apparatus according to claim 1,

wherein said detection means has a light-emitting member for emitting light and a light-receiving member for receiving
30 the light that is emitted by said light-emitting member, and

detects whether or not said recording medium is present based on an output value of said light-receiving member.

7. A recording apparatus comprising:

5 carrying means for carrying a recording medium;

detection means that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said
10 recording medium; and

a recording head for ejecting liquid to record recording information;

wherein if a width of said recording medium that has been detected by said detection means is shorter than a width, in
15 the direction that intersects the carrying direction of said recording medium, over which said recording information is to be recorded, then a portion of the recording information, of the entire recording information, corresponding to the width, or to less than the width, of said recording medium that has
20 been detected by said detection means is recorded onto said recording medium by said recording head;

wherein if the width of said recording medium that has been detected by said detection means is shorter than the width, in the direction that intersects the carrying direction of said
25 recording medium, over which said recording information is to be recorded, then a portion of the recording information, of the entire recording information, corresponding to

the width of said recording medium that has been detected by said detection means, or

30 a width obtained by subtracting a border width

from the width of said recording medium that has
been detected by said detection means

is recorded onto said recording medium by said recording head;

wherein said detection means moves in the direction that
5 intersects the carrying direction of said recording medium and
detects whether or not said recording medium is present, and
detects the width of said recording medium based on whether or
not said recording medium is present;

wherein said detection means and said recording head are
10 both provided in/on a moving member for moving in the direction
that intersects the carrying direction of said recording
medium; and

wherein said detection means has a light-emitting member
for emitting light and a light-receiving member for receiving
15 the light that is emitted by said light-emitting member, and
detects whether or not said recording medium is present based
on an output value of said light-receiving member.

8. A recording method for a recording apparatus that is
20 provided with: a carrying mechanism for carrying a recording
medium; a sensor that can move in a direction that intersects
the carrying direction of said recording medium and that is for
detecting a width of said recording medium in the direction that
intersects the carrying direction of said recording medium; and
25 a recording head for ejecting liquid to record recording
information; said method comprising:

recording, onto said recording medium using said
recording head, a portion of the recording information, of the
entire recording information, corresponding to the width, or
30 to less than the width, of said recording medium that has been

detected by said sensor, if a width of said recording medium that has been detected by said sensor is shorter than a width, in the direction that intersects the carrying direction of said recording medium, over which said recording information is to be recorded.

9. A program that causes a recording apparatus provided with carrying means for carrying a recording medium, detection means that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said recording medium, and a recording head for ejecting liquid to record recording information, to achieve the function of:

recording, onto said recording medium using said recording head, a portion of the recording information, of the entire recording information, corresponding to the width, or to less than the width, of said recording medium that has been detected by said detection means, if a width of said recording medium that has been detected by said detection means is shorter than a width, in the direction that intersects the carrying direction of said recording medium, over which said recording information is to be recorded.

10. A computer system comprising:

a recording apparatus including:

carrying means for carrying a recording medium;

detection means that can move in a direction that intersects the carrying direction of said

recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said recording medium; and

5 a recording head for ejecting liquid to record recording information; and

 a main computer unit connected to said recording apparatus;

 wherein if a width of said recording medium that has been
10 detected by said detection means is shorter than a width, in the direction that intersects the carrying direction of said recording medium, over which said recording information is to be recorded, then a portion of the recording information, of the entire recording information, corresponding to the width,
15 or to less than the width, of said recording medium that has been detected by said detection means is recorded onto said recording medium by said recording head.

11. A recording apparatus comprising:

20 carrying means for carrying a recording medium;

 detection means that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said
25 recording medium;

 setting means for setting a size of said recording medium;
and

 a recording head for ejecting liquid to record recording information;

30 wherein a notice is made when the width of said recording

medium that has been detected by said detection means is different from a width of the size of said recording medium that has been set with said setting means.

5 12. A recording apparatus according to claim 11,
wherein a notice is made using audio information.

13. A recording apparatus according to claim 11,
wherein a notice is made using display information.

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14. A recording apparatus according to claim 11,
wherein said recording apparatus stops recording the
recording information to said recording medium when the width
of said recording medium that has been detected by said detection
15 means is different from the width of the size of said recording
medium that has been set with said setting means.

15. A recording apparatus according to claim 11,
wherein the size of said recording medium that has been
20 set with said setting means includes a predetermined error, and
a notice is made when the width of said recording medium that
has been detected by said detection means differs, by an amount
of said error or more, from the width of the size of said
recording medium that has been set with said setting means.

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16. A recording apparatus according to claim 15,
wherein the width of the size of said recording medium
that has been set by said setting means includes the
predetermined error, and a notice is made when the width of said
30 recording medium that has been detected by said detection means

differs, by an amount of said error or more, from the width of the size of said recording medium that has been set by said setting means.

- 5 17. A recording apparatus according to claim 11,
wherein said detection means moves in the direction that intersects the carrying direction of said recording medium and detects the width of said recording medium based on whether or not said recording medium is present.

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18. A recording apparatus according to claim 11,
wherein said detection means and said recording head are both provided in/on a moving member for moving in the direction that intersects the carrying direction of said recording
15 medium.

19. A recording apparatus according to claim 11,
wherein said detection means has a light-emitting member for emitting light and a light-receiving member for receiving
20 the light that is emitted by said light-emitting member, and detects whether or not said recording medium is present based on an output value of said light-receiving member.

20. A recording apparatus comprising:
25 carrying means for carrying a recording medium;
detection means that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said
30 recording medium;

setting means for setting a size of said recording medium;
and

a recording head for ejecting liquid to record recording information;

5 wherein a notice is made using audio information or display information when the width of said recording medium that has been detected by said detection means is different from a width of the size of said recording medium that has been set with said setting means;

10 wherein said recording apparatus stops recording the recording information to said recording medium when the width of said recording medium that has been detected by said detection means is different from the width of the size of said recording medium that has been set with said setting means;

15 wherein the width of the size of said recording medium that has been set by said setting means includes a predetermined error, and a notice is made when the width of said recording medium that has been detected by said detection means differs, by an amount of said error or more, from the width of the size
20 of said recording medium that has been set by said setting means;

 wherein said detection means moves in the direction that intersects the carrying direction of said recording medium and detects the width of said recording medium based on whether or not said recording medium is present;

25 wherein said detection means and said recording head are both provided in/on a moving member for moving in the direction that intersects the carrying direction of said recording medium; and

 wherein said detection means has a light-emitting member
30 for emitting light and a light-receiving member for receiving

the light that is emitted by said light-emitting member, and detects whether or not said recording medium is present based on an output value of said light-receiving member.

- 5 21. A recording method for a recording apparatus that is provided with: a carrying mechanism for carrying a recording medium; a sensor that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that
10 intersects the carrying direction of said recording medium; a setting section for setting a size of said recording medium; and a recording head for ejecting liquid to record recording information; said method comprising:

making a notice when the width of said recording medium
15 that has been detected by said sensor is different from a width of the size of said recording medium that has been set with said setting section.

22. A program that causes a recording apparatus provided with
20 carrying means for carrying a recording medium, detection means that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said recording medium, setting means
25 for setting a size of said recording medium, and a recording head for ejecting liquid to record recording information, to achieve the function of:

making a notice when the width of said recording medium
that has been detected by said detection means is different from
30 a width of the size of said recording medium that has been set

with said setting means.

23. A computer system comprising:

a recording apparatus including:

5 carrying means for carrying a recording medium;

detection means that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width
10 of said recording medium in the direction that intersects the carrying direction of said recording medium;

setting means for setting a size of said recording medium; and

15 a recording head for ejecting liquid to record recording information; and

a main computer unit connected to said recording apparatus;

wherein a notice is made when the width of said recording
20 medium that has been detected by said detection means is different from a width of the size of said recording medium that has been set with said setting means.

24. A recording apparatus comprising:

25 carrying means for carrying a recording medium;

detection means that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said
30 recording medium; and

a recording head for ejecting liquid to record recording information;

wherein ON/OFF of an operation through which said detection means detects the width of said recording medium is
5 settable.

25. A recording apparatus according to claim 24,
wherein the ON/OFF of the operation through which said detection means detects the width of said recording medium is
10 settable through a display screen.

26. A recording apparatus according to claim 24,
wherein the ON/OFF of the operation through which said detection means detects the width of said recording medium is
15 initially set to either one of ON and OFF in accordance with a type of said recording medium.

27. A recording apparatus according to claim 24,
wherein the ON/OFF of the operation through which said
20 detection means detects the width of said recording medium is initially set to either one of ON and OFF in accordance with a resolution at which the recording information is to be recorded to said recording medium.

25 28. A recording apparatus according to claim 24,
wherein said recording apparatus further comprises setting means for setting a size of said recording medium; and
wherein a notice is made when the width of said recording medium that has been detected by said detection means is
30 different from a width of the size of said recording medium that

has been set with said setting means.

29. A recording apparatus according to claim 24,
wherein said detection means detects the width of said
5 recording medium before said recording head starts the
recording of the recording information to the recording medium.

30. A recording apparatus according to claim 24,
wherein said detection means moves in the direction that
10 intersects the carrying direction of said recording medium and
detects the width of said recording medium based on whether or
not said recording medium is present.

31. A recording apparatus according to claim 24,
15 wherein said detection means and said recording head are
both provided in/on a moving member for moving in the direction
that intersects the carrying direction of said recording
medium.

20 32. A recording apparatus according to claim 24,
wherein said detection means has a light-emitting member
for emitting light and a light-receiving member for receiving
the light that is emitted by said light-emitting member, and
detects whether or not said recording medium is present based
25 on an output value of said light-receiving member.

33. A recording apparatus comprising:
carrying means for carrying a recording medium;
detection means that can move in a direction that
30 intersects the carrying direction of said recording medium and

that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said recording medium; and

5 a recording head for ejecting liquid to record recording information;

wherein ON/OFF of an operation through which said detection means detects the width of said recording medium is settable through a display screen;

10 wherein the ON/OFF of the operation through which said detection means detects the width of said recording medium is initially set to either one of ON and OFF in accordance with a type of said recording medium or a resolution at which the recording information is to be recorded to said recording medium;

15 wherein said recording apparatus further comprises setting means for setting a size of said recording medium;

wherein a notice is made when the width of said recording medium that has been detected by said detection means is different from a width of the size of said recording medium that
20 has been set with said setting means;

wherein, before said recording head starts the recording of the recording information to the recording medium, said detection means moves in the direction that intersects the carrying direction of said recording medium and detects the
25 width of said recording medium based on whether or not said recording medium is present;

wherein said detection means and said recording head are both provided in/on a moving member for moving in the direction that intersects the carrying direction of said recording
30 medium; and

wherein said detection means has a light-emitting member for emitting light and a light-receiving member for receiving the light that is emitted by said light-emitting member, and detects whether or not said recording medium is present based
5 on an output value of said light-receiving member.

34. A recording method for a recording apparatus that is provided with: a carrying mechanism for carrying a recording medium; a sensor that can move in a direction that intersects
10 the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said recording medium; and a recording head for ejecting liquid to record recording information; said method comprising:

15 enabling ON/OFF of an operation through which said sensor detects the width of said recording medium to be settable.

35. A program that causes a recording apparatus provided with carrying means for carrying a recording medium, detection means
20 that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said recording medium, and a recording head for ejecting liquid to record recording information, to
25 achieve the function of:

enabling ON/OFF of an operation through which said detection means detects the width of said recording medium to be settable.

30 36. A computer system comprising:

a recording apparatus including:

carrying means for carrying a recording medium;

5 detection means that can move in a direction that intersects the carrying direction of said recording medium and that is for detecting a width of said recording medium in the direction that intersects the carrying direction of said recording medium; and

10 a recording head for ejecting liquid to record recording information; and

a main computer unit connected to said recording apparatus;

15 wherein ON/OFF of an operation through which said detection means detects the width of said recording medium is settable.